| Index of Claims | Application/Control No. | Applicant(s)/Patent unde<br>Reexamination |  |  |  |  |  |  |
|-----------------|-------------------------|---|--|--|--|--|--|--|
|                 | 09/892,833              | SATO ET AL.                               |  |  |  |  |  |  |
|                 | Examiner                | Art Unit                                  |  |  |  |  |  |  |
|                 | Gary C. Vieaux          | 2612                                      |  |  |  |  |  |  |

| \<br>\ | Rejected |   | (Through numeral)<br>Cancelled | N N |   | Non-Elected  | A | Appeal   |
|--------|----------|---|--------------------------------|-----|---|--------------|---|----------|
| =      | Allowed  | ÷ | Restricted                     |     | ı | Interference | 0 | Objected |

| Claim        | 1             | Date        |         |              |              |          |          | Claim Date |          |          |             |          |          |           | Cli      | aim      | Date             |         |           |  |   |       |            |   |                |          |           |          |          |          |          |           |
|--------------|---------------|-------------|---------|--------------|--------------|----------|----------|------------|----------|----------|-------------|----------|----------|-----------|----------|----------|------------------|---------|-----------|--|---|-------|------------|---|----------------|----------|-----------|----------|----------|----------|----------|-----------|
| <del>-</del> | =             |             |         |              |              |          |          |            |          |          |             | -        |          |           |          | Т        |                  |         |           |  |   |       | =          |   |                |          |           |          |          |          |          |           |
| Final        | Original      | 6/9/05      |         |              |              |          |          |            | ľ        |          | Final       | Original |          |           |          |          |                  |         |           |  |   | Final | Original   |   |                |          |           |          |          |          |          |           |
| ڭ   تتا      | 5             | 8           |         | 1            | ł            |          |          |            |          | ľ        | 证           | 충        |          |           | -        |          |                  |         |           |  |   | ιΞ    | Ž          |   |                |          |           |          |          |          |          | , ,       |
|              |               |             |         | <u> </u>     | <u> </u>     |          |          |            |          | L        |             |          |          |           | $\perp$  |          |                  | L       |           |  |   |       |            |   |                |          |           |          |          |          |          |           |
|              | _             | 1           |         | <u> </u>     | <u> </u>     |          |          |            |          | L        |             | 51       | _        |           | _        |          | _                | $\perp$ | ⊥_        |  |   | i     | 101        |   |                |          |           |          |          |          |          |           |
|              |               | 1           | ┷       | L            | <u> </u>     |          |          |            |          | L        |             | 52       |          |           | 4        |          |                  |         | $\perp$   |  |   |       | 102        |   |                |          |           |          |          |          |          |           |
|              |               | <u>•   </u> |         | L            | <u> </u>     |          | _        |            | _        | L        |             | 53       | _        | _         | _        | _        | _                | _       | _         | $\perp$  |   |       | 103        |   |                |          |           |          |          |          | _        | $\square$ |
|              |               | 1           |         | <del> </del> | <del> </del> |          |          |            | _        | -        |             | 54       |          | _         |          | _        | _                |         | - -       | _  |   |       | 104        |   |                |          |           |          |          |          | _        |           |
|              |               | 1           | 4-      | ├            | ┼            |          |          | $\sqcup$   | 4        | -        |             | 55       |          | -         | 4        | _        | -                | -       | +         | <b>_</b>   |   |       | 105        |   |                |          |           |          |          |          |          | _         |
|              |               | <u> </u>    | 4       | ┼            | -            |          |          | $\vdash$   |          | -        |             | 56       | $\dashv$ | _         | $\dashv$ | _        | -                | _       | -         |  |   |       | 106        |   |                |          |           |          |          |          |          |           |
|              | $\rightarrow$ | √<br>√      | +       | ╀            | $\vdash$     | _        |          |            |          | }        |             | 57       |          | +         | -        | +        | +                | -∤      | +-        | +-   |   |       | 107        |   |                |          |           |          |          | -        | $\dashv$ | $\dashv$  |
|              | _             | 0           | -       | +            | $\vdash$     | -        |          |            |          | }        |             | 58<br>59 | -        | $\dashv$  | +        |          |                  |         | ╀         | +-   |   |       | 108        |   |                |          | -         |          | Н        | -        | -        | $\dashv$  |
| 1            |               | =           | +-      | ╁            | ╁            |          |          | H          |          | }        |             | 60       |          | +         | +        |          | +                | -       | +         | +  |   |       | 109<br>110 |   |                |          | -         |          | $\dashv$ | $\dashv$ | -        | $\dashv$  |
| 1            |               | =           | +-      | ╁            | ┼            | -        | -        | -          | $\dashv$ | ŀ        |             | 61       |          |           |          | -+       |                  | +       | +         | -  |   |       |            |   | -              | _        | -         | -        | -        | -        |          |           |
| 1            |               | =           | +-      | $\vdash$     | +            |          |          | -          | $\dashv$ | H        |             | 62       | $\dashv$ | $\dashv$  | -+       | +        | +                | +       | +         | +  |   |       | 111<br>112 |   | $\vdash\vdash$ | $\dashv$ | $\vdash$  | $\dashv$ |          |          |          | $\dashv$  |
| 1            |               | =           | +-      | ┼            | +-           | -        |          | $\dashv$   | $\dashv$ | <b>-</b> |             | 63       | -        | $\dashv$  | -        | +        | $\dashv$         | +       | +         |  |   |       | 113        |   |                |          | $\vdash$  |          | $\vdash$ |          |          | $\dashv$  |
|              |               | <u>-</u>    | +       | $\vdash$     | -            | -        | $\vdash$ | $\vdash$   | $\dashv$ | }        | -           | 64       |          | -         | -+       | $\dashv$ | +                | +       | +         | +  |   |       | 114        | - | $\vdash$       | $\dashv$ | $\vdash$  | $\dashv$ |          |          |          | $\dashv$  |
| 1            |               | =           | +       | $\vdash$     | $\vdash$     |          |          | $\dashv$   | $\dashv$ | 1        |             | 65       | $\dashv$ | $\dashv$  | -+       | +        | -+               | +       | +         | +  | } |       | 115        |   | $\vdash$       |          |           |          |          |          | $\dashv$ | $\dashv$  |
| 1            |               | $\top$      | $\top$  |              |              |          | $\vdash$ |            | $\dashv$ | ŀ        | -           | 66       |          | $\dashv$  | $\dashv$ |          | -                | +       | $\dagger$ | $\top$   |   |       | 116        |   | $\vdash$       | $\dashv$ | $\vdash$  | $\dashv$ | $\dashv$ | $\neg$   |          |           |
| 1            |               | $\top$      | $\top$  |              | $\vdash$     |          |          |            | $\dashv$ | ŀ        |             | 67       |          | $\dashv$  | 寸        | _        |                  | $\top$  | 1         | $\top$   |   |       | 117        | - |                |          |           |          |          | 一        | -        | $\neg$    |
| 1            |               | 1           |         | T            |              |          |          |            | $\neg$   | ı        | $\neg$      | 68       |          | 1         | 1        | $\dashv$ | _                | +       | 1         | 1  |   |       | 118        |   |                |          |           |          |          | _        | 一        |           |
| 1            |               |             |         |              |              |          |          |            | $\neg$   | ı        | $\neg \neg$ | 69       |          | $\dashv$  | T        | 十        | _                | $\top$  |           |  |   |       | 119        |   |                |          |           |          |          | 一        |          | _         |
| 2            | 0             |             |         |              |              |          |          |            | $\neg$   | Ī        |             | 70       |          | 寸         |          | _        |                  | 十       |           |  |   |       | 120        |   |                |          |           |          |          | 一        | _        | _         |
| 2            |               |             |         | Т            |              |          |          |            | $\neg$   | ſ        |             | 71       | $\neg$   | $\exists$ |          | 7        | 1                |         |           |  |   |       | 121        | _ |                |          |           |          |          |          |          | $\neg$    |
| 2            |               |             |         | T            |              |          |          |            | $\neg$   | Γ        |             | 72       | $\neg$   | $\neg$    |          | T        |                  |         |           |  |   |       | 122        |   |                |          |           |          |          |          |          | $\neg$    |
| 2            | 3             |             |         |              |              |          |          |            | $\neg$   | Γ        |             | 73       |          | T         |          | T        | T                | $\top$  | 1         |  |   |       | 123        |   |                |          |           |          |          |          | 寸        | $\neg$    |
| 2            | 4             |             |         |              |              |          |          |            |          |          |             | 74       |          | $\neg$    |          |          |                  | $\top$  |           |  |   |       | 124        |   |                |          |           |          |          |          | 丁        | $\Box$    |
| 2            | 5             |             |         |              |              |          |          |            |          |          |             | 75       |          |           |          |          |                  |         |           |  |   |       | 125        |   |                |          |           |          |          | $\neg$   | $\neg$   | $\neg$    |
| 2            |               |             |         |              |              |          |          |            |          |          |             | 76       |          |           |          |          |                  |         |           |  |   |       | 126        |   |                |          |           |          |          |          |          |           |
| 2            | 7             | _ _         |         | <u>L</u>     |              |          |          |            | ╝        | L        |             | 77       |          |           |          |          |                  |         |           |  |   |       | 127        |   |                |          |           |          |          |          |          |           |
| 2            |               | _           |         |              | 1            |          |          |            |          | L        |             | 78       | _        |           |          | _ _      |                  |         |           | $oxed{oxed}$   |   |       | 128        |   | $\Box$         |          |           |          |          |          |          |           |
| 2            |               | _           | $\perp$ |              |              |          |          |            | _        | Ĺ        |             | 79       | _        | _         | 4        | _        |                  |         | _         | $oldsymbol{ol}}}}}}}}}}}}}}}}}}$ |   |       | 129        |   |                |          |           |          |          |          |          |           |
| 3            |               | $\perp$     | $\perp$ | <u> </u>     |              |          |          |            | _        | ļ        |             | 80       |          | $\perp$   | _        |          | _                |         | _         |  |   |       | 130        |   |                |          |           |          |          |          |          |           |
| 3            |               | _           | 4       | ┡            | 1_           |          |          |            |          | L        |             | 81       | _        | _         | _        | _        | _                |         |           | 1_   |   |       | 131        |   |                |          |           |          |          |          | _        |           |
| 3            |               | +           | +-      | ╁            |              |          |          | $\sqcup$   | _        | 1        |             | 82       |          |           | -        | _        | $\perp$          | $\perp$ | $\perp$   | 1  |   |       | 132        |   | Ш              |          | $\square$ |          |          | _        | _        | _         |
| 3            |               | +           |         |              | <b> </b>     | <u> </u> | $\vdash$ | $\vdash$   | $\dashv$ | -        |             | 83       |          | -         | _        | 4        | 4                | +       | ╄-        | -  |   |       | 133        |   |                |          |           |          |          |          | _        |           |
| 3            |               |             | +       | ╂—           |              | $\vdash$ | $\vdash$ | $\vdash$   | $\dashv$ | }        |             | 84       | -        | $\dashv$  | $\dashv$ | +        | +                | -       |           | +  |   |       | 134        |   | $\square$      |          |           |          |          | _        | _        |           |
| 3            |               | +           | +       | $\vdash$     |              | Н        | $\vdash$ | $\dashv$   | $\dashv$ | }-       |             | 85       | $\dashv$ | $\dashv$  | +        | +        | +                | +       | +         | +  |   |       | 135        |   |                |          | $\vdash$  |          |          | _        | _        |           |
| 3            |               | +           | +       | +            | -            | $\vdash$ |          |            | $\dashv$ | }        |             | 86       | -        | $\dashv$  | $\dashv$ | -        | <del>-</del> - - |         | +-        | $\vdash$   |   |       | 136        |   | $\vdash$       |          |           | $\vdash$ | -        |          |          | $\dashv$  |
| 3            |               | +           | +       | ₩            | $\vdash$     |          |          | -          | $\dashv$ | }        |             | 87       |          |           | -        | -        | +                | +       | +         | +  |   |       | 137        |   |                |          | $\vdash$  | -        | $\vdash$ |          |          | $\dashv$  |
| 3            | $^{\circ}$    | +           | +-      | ┼            | ╂            |          |          | -          | $\dashv$ | $\vdash$ |             | 88<br>89 |          | $\dashv$  | -+       | +        | +                | +       | +         | +  |   |       | 138<br>139 |   |                |          | $\vdash$  | -        | $\vdash$ |          | $\dashv$ | $\dashv$  |
| 4            |               | +           | +-      | +            | $\vdash$     |          | $\vdash$ | $\vdash$   | $\dashv$ | H        | -           | 90       |          |           | -        | +        | +                | +       | +         | +-   |   |       | 140        |   |                | -        | $\vdash$  | -        | $\vdash$ |          | $\dashv$ | $\dashv$  |
|              | - 1           | +           | +       | +            | $\vdash$     |          |          | -          | $\dashv$ | -        |             |          | -        | +         | $\dashv$ | +        | +                | +       | +         | $\vdash$   |   |       |            |   | $\vdash$       | -        | $\vdash$  | -        | $\vdash$ |          | $\dashv$ | $\dashv$  |
| 4            |               | +           | +       | $\vdash$     | $\vdash$     | $\vdash$ | -        | -          |          | H        | -           | 91<br>92 |          | +         | +        | +        | -                | +       | +         | +  |   |       | 141        |   |                | -        | $\vdash$  | $\vdash$ | $\vdash$ | $\dashv$ | $\dashv$ |           |
|              | 3             | +           | +-      | +-           | $\vdash$     | Н        | $\vdash$ | $\vdash$   |          | H        |             | 93       | $\dashv$ | $\dashv$  | $\dashv$ | +        | +                | +       | +         | +  |   |       | 143        | - |                |          | -1        | -        | $\dashv$ | $\dashv$ | -        | $\dashv$  |
| 4            |               | +           | +       | $\vdash$     | $\vdash$     | $\vdash$ | H        |            | $\dashv$ | H        |             | 94       | -        | $\dashv$  | $\dashv$ | $\dashv$ | +                | +       | +-        | +  | } |       | 144        |   | $\dashv$       | -        | -         |          |          |          | $\dashv$ | -{        |
| 4            | <del>5</del>  | +           | +       | $t^-$        | 1-           | $\vdash$ | H        | $\dashv$   | $\dashv$ | H        |             | 95       | $\dashv$ | $\dashv$  | $\dashv$ | 十        | +                | +       | +         | +  | } |       | 145        |   | $\vdash$       |          | -         |          |          |          | $\dashv$ | $\dashv$  |
| 4            |               | $\top$      | +       | $^{\dagger}$ | 1            |          | Н        | $\vdash$   | $\dashv$ | H        |             | 96       | -        | $\dashv$  | $\dashv$ | 十        | +                | +       | +         | $\vdash$   |   |       | 146        |   | $\vdash$       |          | -         | -        |          | -        | -        | $\dashv$  |
| 4            | 7             | 十           | 1-      | T            | 1            |          | H        |            | $\dashv$ | t        |             | 97       | -        | $\dashv$  | $\dashv$ | $\top$   | $\dashv$         | +       | 1         | 1-1  | } |       | 147        |   | $\vdash$       | -        |           | -        |          | -        | $\dashv$ | $\dashv$  |
| 4            |               | 十           | T       | t            | H            | $\vdash$ | $\vdash$ |            | $\dashv$ | t        | $\neg$      | 98       | -        | $\dashv$  | $\dashv$ | $\dashv$ | +                | +       | +-        | +  |   |       | 148        | - |                | -        | $\vdash$  |          | -        | ᅱ        | ᅱ        | $\dashv$  |
| 4            |               | $\top$      | $\top$  | T            | T            | М        | $\vdash$ |            | $\dashv$ | f        |             | 99       | _        | $\dashv$  | $\dashv$ | $\top$   | +                | +       | †         | +  |   |       | 149        | _ | $\vdash$       | -        | $\dashv$  | $\dashv$ | $\vdash$ | -        | $\dashv$ | $\dashv$  |
| 5            |               | ┰           | 1       | Т            |              | П        |          |            | $\neg$   | ı        |             | 100      | 一        | $\dashv$  | $\dashv$ | $\dashv$ | +                | $\top$  | 1         | $\sqcap$   |   |       | 150        |   |                |          |           | H        |          | -        | -        | $\dashv$  |